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L30	0	15 and 709/202.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2005/05/12 16:44
L29	0	14 and 709/202.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2005/05/12 16:44
L28	0	13 and 709/202.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2005/05/12 16:44
L27	0	12 and 709/202.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2005/05/12 16:44
L26	0	11 and 709/202.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2005/05/12 16:44
L25	0	11 and 709/201.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2005/05/12 16:44
L24	0	12 and 709/201.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2005/05/12 16:44
L23	0	13 and 709/201.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2005/05/12 16:44

L22	0	14 and 709/201.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2005/05/12 16:44
L21	3	15 and 709/201.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2005/05/12 16:44
L20	0	15 and 719/317.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2005/05/12 16:43
L19	0	14 and 719/317.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2005/05/12 16:43
L18	0	13 and 719/317.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2005/05/12 16:43
L17	0	12 and 719/317.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2005/05/12 16:43
L16	0	11 and 719/317.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2005/05/12 16:43
L15	3	11 and 707/3.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2005/05/12 16:43
L14	7	12 and 707/3.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2005/05/12 16:42

L13	27	13 and 707/3.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2005/05/12 16:42
L12	6	14 and 707/3.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2005/05/12 16:42
L11	9	15 and 707/3.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2005/05/12 16:42
L10	0	15 and 718/101.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2005/05/12 16:42
L9	0	14 and 718/101.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2005/05/12 16:41
L8	0	13 and 718/101.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2005/05/12 16:41
L7	0	12 and 718/101.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2005/05/12 16:41
L6	0	11 and 718/101.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2005/05/12 16:41
L5	53	(determin\$7 decid\$3 decision) with (user client quer\$3 request\$3) with (sort\$3) with (information result\$4 output\$4 quer\$3) with (remot\$3 server nod\$2) with (local\$2 receiv\$3 request\$2 client user)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2005/05/12 16:32

S31	53	(determin\$7 decid\$3 decision) with (user client quer\$3 request\$3) with (sort\$3) with (information result\$4 output\$4 quer\$3) with (remot\$3 server nod\$2) with (local\$2 receiv\$3 request\$2 client user)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2005/05/12 15:02
S30	47	(determin\$7 decid\$3 decision) with (user client request\$2) with (sort\$3) with (information result\$4 output\$4 quer\$3) with (remot\$3 server nod\$2) with (local\$2 receiv\$3 request\$2 client user)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2005/05/12 15:02
L4	47	(determin\$7 decid\$3 decision) with (user client request\$2) with (sort\$3) with (information result\$4 output\$4 quer\$3) with (remot\$3 server nod\$2) with (local\$2 receiv\$3 request\$2 client user)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2005/05/12 15:02
S21	67	(quer\$3 request\$3) with (response result\$4) with (find\$3 search\$3) with (sort\$3) with (user client remote)	US-PGPUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2005/05/12 15:00
L3	100	(quer\$3 request\$3) with (response result\$4) with (find\$3 search\$3) with (sort\$3) with (user client remote)	US-PGPUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2005/05/12 15:00
S24	2	((search\$3 with engine with sort\$3 with result\$4) same determin\$7) not (search\$3 with engine with sort\$3 with result\$4 with determin\$7)	US-PGPUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2005/05/12 14:59
S23	7	(search\$3 with engine with sort\$3 with result\$4) same determin\$7	US-PGPUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2005/05/12 14:59
L2	15	(search\$3 with engine with sort\$3 with result\$4) same determin\$7	US-PGPUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2005/05/12 14:59
L1	7	((search\$3 with engine with sort\$3 with result\$4) same determin\$7) not (search\$3 with engine with sort\$3 with result\$4 with determin\$7)	US-PGPUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2005/05/12 14:59
S32	6	S31 not S30	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2005/05/11 17:00

S29	321	determin\$7 with (user client request\$2) with (sort\$3) with (information result\$4 output\$4 quer\$3) with (remot\$3 local\$2 receiv\$3 request\$2 client user node server)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2005/05/11 16:35
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101 [Data integration using similarity joins and a word-based information representation language](#)

William W. Cohen

July 2000 **ACM Transactions on Information Systems (TOIS)**, Volume 18 Issue 3Full text available: [pdf\(312.80 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

The integration of distributed, heterogeneous databases, such as those available on the World Wide Web, poses many problems. Here we consider the problem of integrating data from sources that lack common object identifiers. A solution to this problem is proposed for databases that contain informal, natural-language "names" for objects; most Web-based databases satisfy this requirement, since they usually present their information to the end-user through a veneer of text. We des ...

102 [Question-answering by predictive annotation](#)

John Prager, Eric Brown, Anni Coden, Dragomir Radev

July 2000 **Proceedings of the 23rd annual international ACM SIGIR conference on Research and development in information retrieval**Full text available: [pdf\(794.29 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We present a new technique for question answering called Predictive Annotation. Predictive Annotation identifies potential answers to questions in text, annotates them accordingly and indexes them. This technique, along with a complementary analysis of questions, passage-level ranking and answer selection, produces a system effective at answering natural-language fact-seeking questions posed against large document collections. Experimental results show the effects of different parameter setti ...

103 [Improving problem-oriented mailing list archives with MCS](#)

Robert S. Brewer

June 2000 **Proceedings of the 22nd international conference on Software engineering**Full text available: [pdf\(120.93 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Developers often use electronic mailing lists when seeking assistance with a particular software application. The archives of these mailing lists provide a rich repository of problem-solving knowledge. Developers seeking a quick answer to a problem find these archives inconvenient, because they lack efficient searching mechanisms, and retain the

structure of the original conversational threads which are rarely relevant to the knowledge seeker. We present a system called MCS which ...

Keywords: archives, collective memory, knowledge condensation, mailing lists

104 Asynchronous information space analysis architecture using content and structure-based service brokering 

Ke-Thia Yao, In-Young Ko, Ragy Eleish, Robert Neches

June 2000 **Proceedings of the fifth ACM conference on Digital libraries**

Full text available:  pdf(470.15 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Our project focuses on rapid formation and utilization of custom collections of information for groups focused on high-paced tasks. Assembling such collections, as well as organizing and analyzing the documents within them, is a complex and sophisticated task. It requires understanding what information management services and tools are provided by the system, when they appropriate to use, and how those services can be composed together to perform more complex analyses. This paper describes ...

Keywords: asynchronous service access, component architecture, content and structure, data-driven brokering, information analysis, information management, metadata

105 Information retrieval on the web 

Mei Kobayashi, Koichi Takeda

June 2000 **ACM Computing Surveys (CSUR)**, Volume 32 Issue 2

Full text available:  pdf(213.89 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In this paper we review studies of the growth of the Internet and technologies that are useful for information search and retrieval on the Web. We present data on the Internet from several different sources, e.g., current as well as projected number of users, hosts, and Web sites. Although numerical figures vary, overall trends cited by the sources are consistent and point to exponential growth in the past and in the coming decade. Hence it is not surprising that about 85% of Internet user ...

Keywords: Internet, World Wide Web, clustering, indexing, information retrieval, knowledge management, search engine

106 Examining the role of statistical and linguistic knowledge sources in a general-knowledge question-answering system 

Claire Cardie, Vincent Ng, David Pierce, Chris Buckley

April 2000 **Proceedings of the sixth conference on Applied natural language processing**

Full text available:  pdf(916.56 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

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We describe and evaluate an implemented system for general-knowledge question answering. The system combines techniques for standard ad-hoc information retrieval (IR), query-dependent text summarization, and shallow syntactic and semantic sentence analysis. In a series of experiments we examine the role of each statistical and linguistic knowledge source in the question-answering system. In contrast to previous results, we find first that statistical knowledge of word co-occurrences as computed ...

107 Power browser: efficient Web browsing for PDAs

Orkut Buyukkokten, Hector Garcia-Molina, Andreas Paepcke, Terry Winograd

April 2000 **Proceedings of the SIGCHI conference on Human factors in computing systems**Full text available:  [pdf\(992.84 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We have designed and implemented new Web browsing facilities to support effective navigation on Personal Digital Assistants (PDAs) with limited capabilities: low bandwidth, small display, and slow CPU. The implementation supports wireless browsing from 3Com's Palm Pilot. An HTTP proxy fetches web pages on the client's behalf and dynamically generates summary views to be transmitted to the client. These summaries represent both the link structure and contents of a set of web pages, using infor ...

Keywords: HTTP, PDA (personal digital assistant), PalmPilot, Web, browser, proxy, wireless

108 Shortest-substring retrieval and ranking

Charles L. A. Clarke, Gordon V. Cormack

January 2000 **ACM Transactions on Information Systems (TOIS)**, Volume 18 Issue 1Full text available:  [pdf\(228.35 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We present a model for arbitrary passage retrieval using Boolean queries. The model is applied to the task of ranking documents, or other structural elements, in the order of their expected relevance. Features such as phrase matching, truncation, and stemming integrate naturally into the model. Properties of Boolean algebra are obeyed, and the exact-match semantics of Boolean retrieval are preserved. Simple inverted-list file structures provide an efficient implementation. Retrieval effecti ...

Keywords: Boolean retrieval model, passage retrieval, relevance ranking

109 Privacy online

Herman T. Tavani

December 1999 **ACM SIGCAS Computers and Society**, Volume 29 Issue 4Full text available:  [pdf\(1.06 MB\)](#)Additional Information: [full citation](#), [references](#), [citations](#)**110 An integrated algorithm for combined placement and libraryless technology mapping**

Yanbin Jiang, Sachin S. Sapatnekar

November 1999 **Proceedings of the 1999 IEEE/ACM international conference on Computer-aided design**Full text available:  [pdf\(78.56 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper presents a new solution for combining technology mapping with placement, coupling the two into one phase. The original aspects of our work are the use of libraryless mapping and a state space search mechanism that is used to find the best solution. Several heuristics are presented for speeding up the search. Comparisons with a more conventional approach show that these strategies provide improvements of about 20%, with reasonable CPU times, on benchmark circuits. ...

111 Document image understanding

Sargur N. Srihari

November 1999 **Proceedings of 1986 ACM Fall joint computer conference**

Full text available:  pdf(1.38 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)



112 [Brokering strategies in electronic commerce markets](#)

Arie Segev, Carrie Beam

November 1999 **Proceedings of the 1st ACM conference on Electronic commerce**

Full text available:  pdf(122.36 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: borkers, electronic commerce, intermediation, internet, markets



113 [Efficient passage ranking for document databases](#)

Marcin Kaszkiel, Justin Zobel, Ron Sacks-Davis

October 1999 **ACM Transactions on Information Systems (TOIS)**, Volume 17 Issue 4

Full text available:  pdf(328.98 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Queries to text collections are resolved by ranking the documents in the collection and returning the highest-scoring documents to the user. An alternative retrieval method is to rank passages, that is, short fragments of documents, a strategy that can improve effectiveness and identify relevant material in documents that are too large for users to consider as a whole. However, ranking of passages can considerably increase retrieval costs. In this article we explore alternative query evalua ...

Keywords: inverted files, passage retrieval, query evaluation, text databases, text retrieval



114 [The Desert environment](#)

Steven P. Reiss

October 1999 **ACM Transactions on Software Engineering and Methodology (TOSEM)**,

Volume 8 Issue 4

Full text available:  pdf(868.64 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

The Desert software engineering environment is a suite of tools developed to enhance programmer productivity through increased tool integration. It introduces an inexpensive form of data integration to provide additional tool capabilities and information sharing among tools, uses a common editor to give high-quality semantic feedback and to integrate different types of software artifacts, and builds virtual files on demand to address specific tasks. All this is done in an open and extensibl ...

Keywords: integrated programming environments, program editors



115 [Functional centering: grounding referential coherence in information structure](#)

Michael Strube, Udo Hahn

September 1999 **Computational Linguistics**, Volume 25 Issue 3

Full text available:  pdf(2.51 MB)  Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)
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Considering empirical evidence from a free-word-order language (German) we propose a

revision of the principles guiding the ordering of discourse entities in the forward-looking center list within the centering model. We claim that grammatical role criteria should be replaced by criteria that reflect the functional information structure of the utterances. These new criteria are based on the distinction between hearer-old and hearer-new discourse entities. We demonstrate that such a functional mo ...

116 OPT++ : an object-oriented implementation for extensible database query

[optimization](#)

Navin Kabra, David J. DeWitt

April 1999 **The VLDB Journal — The International Journal on Very Large Data Bases,**

Volume 8 Issue 1

Full text available:  [pdf\(167.26 KB\)](#) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

In this paper we describe the design and implementation of OPT++, a tool for extensible database query optimization that uses an object-oriented design to simplify the task of implementing, extending, and modifying an optimizer. Building an optimizer using OPT++ makes it easy to extend the query algebra (to add new query algebra operators and physical implementation algorithms to the system), easy to change the search space, and also to change the search strategy. Furthermore, OPT++ comes equipp ...

Keywords: Extensibility, Object-relational databases, Query optimization, Software architecture

117 Implementing search strategies for grammar interpreters

Nathan Madrid

April 1999 **Proceedings of the 37th annual Southeast regional conference (CD-ROM)**

Full text available:  [pdf\(18.40 KB\)](#) Additional Information: [full citation](#), [index terms](#)

118 Fast address lookups using controlled prefix expansion

V. Srinivasan, G. Varghese

February 1999 **ACM Transactions on Computer Systems (TOCS)**, Volume 17 Issue 1

Full text available:  [pdf\(258.60 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Internet (IP) address lookup is a major bottleneck in high-performance routers. IP address lookup is challenging because it requires a longest matching prefix lookup. It is compounded by increasing routing table sizes, increased traffic, higher-speed links, and the migration to 128-bit IPv6 addresses. We describe how IP lookups and updates can be made faster using a set of transformation techniques. Our main technique, controlled prefix expansion, transf ...

Keywords: Internet address lookup, binary search on levels, controlled prefix expansion, expanded tries, longest-prefix match, multibit tries, router preformance

119 Special issue on natural language generation: Generating natural language summaries from multiple on-line sources

Dragomir R. Radev, Kathleen R. McKeown

September 1998 **Computational Linguistics**, Volume 24 Issue 3

Full text available:   [pdf\(2.36 MB\)](#) [HTML](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)
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We present a methodology for summarization of news about current events in the form of

briefings that include appropriate background (historical) information. The system that we developed, SUMMONS, uses the output of systems developed for the DARPA Message Understanding Conferences to generate summaries of multiple documents on the same or related events, presenting similarities and differences, contradictions, and generalizations among sources of information. We describe the various components ...

120 [A layered approach to NLP-based information retrieval](#)



Sharon Flank
August 1998

Full text available: [pdf\(724.81 KB\)](#)

[Publisher Site](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

A layered approach to information retrieval permits the inclusion of multiple search engines as well as multiple databases, with a natural language layer to convert English queries for use by the various search engines. The NLP layer incorporates morphological analysis, noun phrase syntax, and semantic expansion based on Word-Net.

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121 Extracting classification knowledge of Internet documents with mining term

[associations: a semantic approach](#)

Shian-Hua Lin, Chi-Sheng Shih, Meng Chang Chen, Jan-Ming Ho, Ming-Tat Ko, Yueh-Ming Huang

August 1998 **Proceedings of the 21st annual international ACM SIGIR conference on Research and development in information retrieval**

Full text available: [pdf\(1.02 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)



122 Efficient mid-query re-optimization of sub-optimal query execution plans

Navin Kabra, David J. DeWitt

June 1998 **ACM SIGMOD Record , Proceedings of the 1998 ACM SIGMOD international conference on Management of data**, Volume 27 Issue 2

Full text available: [pdf\(1.83 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)



For a number of reasons, even the best query optimizers can very often produce sub-optimal query execution plans, leading to a significant degradation of performance. This is especially true in databases used for complex decision support queries and/or object-relational databases. In this paper, we describe an algorithm that detects sub-optimality of a query execution plan during query execution and attempts to correct the problem. The basic idea is to collect statistics at key points durin ...

123 Version models for software configuration management

Reidar Conradi, Bernhard Westfechtel

June 1998 **ACM Computing Surveys (CSUR)**, Volume 30 Issue 2

Full text available: [pdf\(483.54 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)



After more than 20 years of research and practice in software configuration management (SCM), constructing consistent configurations of versioned software products still remains a challenge. This article focuses on the version models underlying both commercial systems and research prototypes. It provides an overview and classification of different versioning paradigms and defines and relates fundamental concepts such as revisions, variants, configurations, and changes. In particular, we foc ...

Keywords: changes, configuration rules, configurations, revisions, variants, versions

124 [Digital library information appliances](#)

Bill N. Schilit, Morgan N. Price, Gene Golovchinsky

May 1998 **Proceedings of the third ACM conference on Digital libraries**

Full text available:  [pdf\(1.46 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)



125 [An abstract machine for tabled execution of fixed-order stratified logic programs](#)

Konstantinos Sagonas, Terrance Swift

May 1998 **ACM Transactions on Programming Languages and Systems (TOPLAS)**,

Volume 20 Issue 3

Full text available:  [pdf\(602.38 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)



SLG resolution uses tabling to evaluate nonfloundering normal logic programs according to the well-founded semantics. The SLG-WAM, which forms the engine of the XSB system, can compute in-memory recursive queries an order of magnitude faster than current deductive databases. At the same time, the SLG-WAM tightly integrates Prolog code with tabled SLG code, and executes Prolog code with minimal overhead compared to the WAM. As a result, the SLG-WAM brings to logic progr ...

Keywords: SLG, WAM, memoing, prolog, stratification theories, tabling

126 [Special issue on word sense disambiguation: Introduction to the special issue on word](#)

[sense disambiguation: the state of the art](#)

Nancy Ide, Jean Véronis

March 1998 **Computational Linguistics**, Volume 24 Issue 1

Full text available:  [pdf\(3.44 MB\)](#)  Additional Information: [full citation](#), [references](#), [citations](#)
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127 [Hi-cites: dynamically created citations with active highlighting](#)

Michelle Q. Wang Baldonado, Terry Winograd

January 1998 **Proceedings of the SIGCHI conference on Human factors in computing systems**

Full text available:  [pdf\(990.23 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)



Keywords: browsing, digital libraries, dynamic citations, hi-cites, highlighting, information visualization

128 [Fast detection of communication patterns in distributed executions](#)

Thomas Kunz, Michiel F. H. Seuren

November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research**

Full text available:  [pdf\(4.21 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)



Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the